CLAIM AMENDMENTS

(Currently Amended): A method, comprising:

displaying a currently displayed television program on a display;

activating a navigation system during display of the currently displayed television

program, wherein the navigation system determines and displays a set of viewer-

selectable attributes for the currently displayed television program overlaid on the

currently displayed television program, the set of attributes comprising attributes which

are each descriptive of a different aspect of the currently displayed television program,

wherein each attribute of the set of viewer-selectable attributes corresponds to a

combinable navigation context to generate a navigable sequence of television

programs;

selecting at least two attributes from the set of viewer-selectable attributes using

one or more of three navigation keys comprising a previous key, a next key and a select

kev:

logically combining the navigation contexts which correspond to the selected at

least two attributes using Boolean operators;

querying a database of television programming metadata for television program

identifiers associated with the combined navigation contexts:

generating a sequence of television programs associated with the identifiers for

navigation, wherein the sequence comprises a corresponding navigational axis, the

sequence of television programs including the current television program and at least

one other television program that shares one or more of the selected attributes with the

currently displayed television program; and

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navigating the sequence of television programs, wherein the navigating

comprises using the next key or previous key to change from displaying the currently

displayed television program in the sequence to displaying another television program

in the sequence, wherein the next key or previous key is used to cycle through the

sequence of television programs without having to access a menu listing the television

programs in the sequence for navigating to display of a next television program in the

sequence.

2. (Original): The method as recited in claim 1, wherein the querying is performed by

one or more predefined queries and each predefined query is associated with a

combinable navigation context.

3. (Previously Presented): The method as recited in claim 1, wherein the set of

attributes includes an actor attribute and a director attribute, and wherein logically

combining the navigation contexts which correspond to the selected attributes

comprises logically combining navigation contexts which correspond to the actor

attribute and the director attribute to generate a single actor-director navigational axis.

4. (Original): The method as recited in claim 2, wherein links for launching the one or

more predefined gueries are associated with television program content.

5. (Original): The method as recited in claim 4, wherein the television program content

is included in a conventional broadcast television show.

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6. (Original): The method as recited in claim 4, wherein the television program content

is included in one of an on-demand television show or an on-demand television movie.

7. (Original): The method as recited in claim 4, wherein the television program content

is included in television musical programming.

8. (Original): The method as recited in claim 4, wherein a link is selectable while the

television program content is playing.

9. (Original): The method as recited in claim 2, wherein links for launching the one or

more predefined queries are associated with television program metadata.

10. (Original): The method as recited in claim 9, wherein a link is selectable while the

television program metadata is displayed.

11. (Canceled)

12. (Previously Presented): The method as recited in claim 1, wherein the select key of

the navigation controls selects one or more of the combinable navigation contexts.

13. (Original): The method as recited in claim 12, further comprising using at least one

of the combinable navigation contexts as a logical filter.

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15. (Previously Presented): The method as recited in claim 1, wherein the Boolean

operators are applied automatically based on an association between a link for

launching a predefined query corresponding to a navigation context and the television

program content associated with the link.

16. (Previously Presented): The method as recited in claim 1, wherein the Boolean

operators are applied automatically based on an association between a link for

launching a predefined query corresponding to a navigation context and the television

program metadata associated with the link.

17. (Canceled)

18. (Previously Presented): A method, comprising:

displaying content of a currently displayed first television program on a display;

activating a navigation system during display of the content of the currently

displayed first television program, wherein the navigation system automatically

determines and displays a set of viewer-selectable attributes that are descriptive of

different aspects of the currently displayed first television program, wherein the

navigation system overlays the set of viewer-selectable attributes on the display of the

content of the currently displayed first television program;

receiving a selection of one or more attribute values from the displayed set of

viewer-selectable attributes to define a query for television programming metadata,

wherein the navigation system uses the selected one or more attribute values

corresponding to the currently displayed first television program in the query to identify a

plurality of television program identifiers corresponding to a plurality of television

programs identified by the navigation system as corresponding to the selected one or

more attribute values:

providing a user interface, wherein a navigation control is used to launch the

query by selecting the one or more attribute values from the displayed set of viewer-

selectable attributes corresponding to the currently displayed first television program;

and

receiving input from the navigation control to sequentially display content of the

plurality of television programs as a navigational axis corresponding to the one or more

attribute values, the navigation control navigating the navigational axis by a single key

used to cycle through displaying the content of the plurality of television programs

identified without accessing a menu listing the plurality of television programs.

19. (Previously Presented): The method as recited in claim 18, wherein the navigation

control comprises a next key, a previous key and a select key, wherein the next key or

previous key is used to cycle through the content of the plurality of television programs

identified without accessing the menu listing the plurality of television programs for

navigating to the content of a next television program of the plurality of television

programs.

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20. - 23. (Canceled)

24. (Previously Presented): The method as recited in claim 18, further comprising

displaying program information for each television program in response to the

navigation control accessing the television program.

25. (Previously Presented): The method as recited in claim 18, further comprising:

pausing a particular television program at a pause point in response to the

navigation control accessing another particular television program of the plurality of

television programs; and

resuming the particular television program at the pause point in response to the

navigation control accessing the particular television program again.

26. (Canceled)

27. (Previously Presented): The method as recited in claim 18, further comprising

selecting multiple attribute values, wherein the multiple attribute values are combined in

the query using Boolean logic operators, wherein the Boolean logic operators are

applied automatically.

28. (Previously Presented): The method as recited in claim 27, wherein the Boolean

operators are designated by a context of the currently displayed first television program.

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- 29. (Currently Amended): A multi-axis television navigation system, comprising:
 - a server for storing and accessing digital television programming content;
- a navigation control for navigating any one of multiple navigational axes to change from displaying a currently displayed television program to displaying a television program provided by the server, and for selecting links to launch predefined queries, wherein each predefined query queries a database of television program metadata based on television program attributes selected by a viewer and returns a particular navigation axis comprising a list of program identifiers of television programs corresponding to a value for the television program attributes selected;
- a means for storing television program metadata in a database;
- a means for arranging the program metadata in a relational schema;
- a means for defining and storing the pre-defined gueries:
- a means for embedding links to the pre-defined queries in logically associated

metadata for a currently displayed television program; and

a means for logically combining multiple predefined queries using Boolean

operators, wherein:

the navigation system is configured to be activated during the display of the

currently displayed television program;

displayed television program:

the <u>server is configured to perform operations that include: navigation system</u>

automatically <u>determines and displaye displaying</u> a set of viewerselectable attributes that are descriptive of different aspects of the currently

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the navigation system overlays overlaying the set of viewer-selectable

attributes on the currently displayed television program; and

the navigation system uses using one or more selected attribute values

selected from the set of viewer-selectable attributes corresponding to the

currently displayed television program to define one of the predefined queries to

produce the list of television program identifiers as [[a]] the particular navigational

axis: and

the navigation control[[s]] provides for navigation from display of the currently

displayed television program to display of a plurality of different television programs

corresponding to the television program identifiers in the list by in response to activation

of a single key for cycling through the display of the plurality of different television

programs along the particular navigational axis identified by the list; and the list is not

displayed during cycling through the television programs.

30. (Canceled):

31. (Currently Amended): The multi-axis television navigation system as recited in

claim 29, wherein the navigation control comprises a next key, a previous key and a

select key, wherein the next key or previous key is used to cycle through the display of

the plurality of different television programs corresponding to the list without having to

access a menu listing the plurality of different television programs in the list for

navigating to a next television program in the list.

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32. (Currently Amended): The multi-axis television navigation system as recited in

claim 29, further comprising a data structure implemented by the server for arranging

the program metadata in a relational schema, wherein the relational schema adheres at

least in part to a global listings format.

33. (Previously Presented): A television navigation engine, executing on a computing

device, the engine comprising:

a database for television program metadata;

a query engine to find program identifiers in the database corresponding to

predefined queries, wherein a predefined query returns a navigational axis from the

database, wherein a navigational axis is a list of program identifiers of television

programs:

a user interface to associate launch of one or more of the predefined queries with

selection of attributes descriptive of a currently displayed television program, and to

receive the attributes which are selected by a viewer, wherein activation of the user

interface during display of a currently displayed television program results in the user

interface presenting a set of viewer-selectable attributes that are descriptive of different

aspects of the currently displayed television program, wherein the user interface

overlays the set of viewer-selectable attributes on the currently displayed television

program for a viewer to select one or more attribute values from the displayed set of

viewer-selectable attributes to define a query;

an axis cache to store the list of program identifiers returned by one or more

predefined queries; and

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a navigation controller associated with the user interface to select the attribute

values from the displayed set of attribute values corresponding to the currently

displayed television program for launching the one or more predefined queries, to

navigate the navigational axis that is the list of program identifiers of television programs

determined to correspond to the one or more predefined queries, and to display

television programs corresponding to the program identifiers on the list, wherein the

navigation controller comprises a single key activated to display multiple programs

successively with corresponding successive single activations of the single key without

displaying the list of program identifiers.

34. (Canceled)

35. (Previously Presented): The television navigation engine as recited in claim 33,

wherein the navigation controller is on a remote controller and comprises a next key, a

previous key and a select key, wherein the next key or previous key is used to cycle

through the television programs corresponding to the list without having to access a

menu listing the television programs in the list for navigating to display of a next

television program in the list.

36. (Previously Presented): A multi-axis television program system that comprises:

a processor coupled to computer readable storage media;

a multi-axis database schema implemented by the processor executing

instructions stored in the computer readable storage media, the schema comprising:

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instructions for arranging a database of television programming metadata

into indices facilitating predefined queries, wherein:

one or more links contextually associated with one or more

attributes of a currently displayed television program call the predefined

queries;

the one or more attributes are selected by a viewer from among a

set of attributes and logically combined using Boolean operators:

each attribute of the set corresponds to a combinable navigation

context which can be used for generating a navigable sequence of

television programs along a navigational axis;

the set of attributes corresponding to the currently displayed

television program are automatically determined by the processor and

displayed as viewer-selectable attributes when a user interface is

activated during display of the currently displayed television program;

the predefined queries return a list of identifiers from the database

corresponding with one or more of the attributes;

each list forms a navigational axis;

each identifier in a list corresponds to either an on-demand or

currently broadcast television program;

the television programs on the list are displayed as accessed by a

television channel navigation control for navigating one or more

navigational axes, wherein the television channel navigation control

comprises a next key, a previous key and a select key; and

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the next key or previous key is used to cycle through the television

programs corresponding to the list without having to access a menu listing

the television programs in the list for navigating to a next television

program in the sequence.

37. (Previously Presented): The multi-axis television program system as recited in

claim 36, wherein the one or more attributes include at least one of: type of program.

program title, alphabetical order of title, year of release, channel, time, first air date,

episode order, episode name, genre, actors, writer, director, producer, rating, sound

characteristics, video characteristics, language, subtitles, closeness of match to search

criteria, or popularity.

38. (Previously Presented): One or more storage media, wherein the storage media is

not a signal, having instructions stored thereon that are executable by a computer to

perform actions comprising:

defining a television navigation axis according to attributes of television programs

where one or more attributes define the navigational axis;

activating a navigation system during display of a currently displayed television

program, wherein the navigation system automatically determines and displays a set of

viewer-selectable attributes that are descriptive of different aspects of the currently

displayed television program, wherein the navigation system overlays the set of viewer-

selectable attributes on the currently displayed television program:

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receiving a viewer selection of one or more attributes from among the displayed

set of viewer-selectable attributes, wherein each attribute displayed is descriptive of a

different aspect of the currently displayed television program;

providing a database of television program identifiers and attributes descriptive of

the television programs corresponding to the television program identifiers in the

database:

providing an interface for selecting and launching a database query based on the

one or more selected attributes corresponding to the currently displayed television

program, wherein the query returns a list of program identifiers of television programs

having the one or more attributes that define the navigational axis; and

displaying sequentially the television programs in the list when a user uses a

navigation controller for changing television channels to navigate along the navigational

axis without navigating a display of the list for navigating to a next television program in

the list.

39. (Canceled)

40. (Currently Amended): A method comprising:

displaying a currently displayed television program on a television;

activating a navigation system during display of the currently displayed television

program, wherein the navigation system determines and displays a set of viewer-

selectable attributes corresponding to the currently displayed television program,

wherein the navigation system overlays the set of viewer-selectable attributes on the

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currently displayed television program, the set of attributes comprising attributes which

are each descriptive of a different aspect of the currently displayed television program;

selecting an attribute from the set of view selectable attributes using one or more

of three navigation keys comprising a previous key, a next key and a select key;

querying a database of television program metadata corresponding to television

programs based on the selected attribute;

receiving results from the querying wherein the results comprise television

program identifiers and wherein each of the television program identifiers identifies a

television program having the selected attribute in common with the currently displayed

television program:

generating a navigational axis for navigating the television programs that

correspond to the television program identifiers wherein the navigational axis comprises

an axis independent of a future time;

receiving an instruction to change a channel on the television by activation of a

single channel change key; and

responsive to receipt of the instruction, navigating the navigational axis from a

first channel displaying the currently displayed television program to a second channel

displaying a different television program located on the navigational axis, wherein a

listing of programs in the navigational axis is not displayed to effect the navigating on

the navigational axis.

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41. (Previously Presented): The method of claim 40 further comprising presenting on

the television at least some information for the television programs that correspond to

the television program identifiers.

42. (Previously Presented): The method of claim 40 further comprising:

during display of the different television program, activating the navigation

system again, wherein the navigation system automatically determines and displays a

different set of viewer-selectable attributes that are descriptive of the different television

program, wherein the navigation system overlays the different set of viewer-selectable

attributes on the display of the different television program, wherein one or more of the

different attributes is selected to create a new list of television program identifiers

corresponding to the selected one or more different attributes for creating an additional

navigational axis, the additional navigational axis based on results from a different query

based on the one or more different attributes.

43. (Previously Presented): The method of claim 42 wherein a two-dimensional control

feature allows for navigation along the navigational axis, the two-dimensional control

feature comprising a next key and a previous key each being a channel change key,

wherein the next key or previous key is used to cycle through the television programs

corresponding to the list without having to access a menu listing the television programs

in the list for navigating to a next television program in the list.

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44. (Previously Presented): One or more storage media, wherein the storage media is not a signal, having computer-executable instructions stored thereon to perform the method of claim 40.